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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,145	12/30/2005	Dung Dao Viet	OVL0003US	4566
23413 CANTOR CO	7590 06/30/201 LBURN LLP	1	EXAM	IINER
20 Church Street			HUANG, CHENG YUAN	
22nd Floor Hartford, CT (06103		ART UNIT	PAPER NUMBER
, -			1787	
			NOTIFICATION DATE	DELIVERY MODE
			06/30/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptopatentmail@cantorcolburn.com

Office Action Summary

Application No.	Applicant(s)	
10/563,145	VIET ET AL.	
Examiner	Art Unit	
CHENG HUANG	1787	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

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Status		
1)🛛	Responsive to communication(s) filed on <u>04 May 2011</u> .	
2a)	This action is FINAL . 2b) ☑ This action is non-final.	
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is	
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	
Disposit	ion of Claims	
41	Claim(a) 04 00 and 04 00 in/are pending in the application	

.,,	Oldini(O) ETTEE	and E i Eo io and	portaining in the approactions
	4a) Of the above	e claim(s)	is/are withdrawn from consideration.
5)□	Claim(s)	is/are allowed	

- Claim(s) _____ is/are allowed.
 Claim(s) 21,22 and 24-26 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected	I to by the Examiner.
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10) The drawing(s) filed on ______is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	

- Certified copies of the priority documents have been received.
- 2. Certified copies of the priority documents have been received in Application No. _____
- 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

Attachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
2) Notice of Draftsperson's Fatent Drawing Review (PTO-942)	Paper No(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08)	 Notice of Informal Patent Application 	
Paper No(s)/Mail Date .	6) Other:	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04 May 2011 has been entered.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claim 26 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- Claim 26 recites the limitation "the plastic layer" in line 17. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - Determining the scope and contents of the prior art.
 - Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- Claims 21-22 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. (U.S. Patent No. 4,863,782) in view of Eby et al. (U.S. Patent No. 6,753,066) and Schmidle et al. (U.S. Patent No. 4,491,616) and Courtoy et al. (U.S. Patent No. 7,081,291).
- 8. Regarding claims 21, 24, and 26, Wang et al. teaches a surface covering (See Title) comprising a substrate (felt layer 60, col. 9, lines 27-28), a plastic layer overlaying the substrate (foamed layer 62, col. 9, line 29-30), a first printing ink in a first pattern on said plastic layer (printing design 64, col. 9, line 41, Fig. 10), and a non curable coating made from plastisol (col. 9, lines 9-16 and 62-68) given that it is clear the second layer 66 (col. 9, line 65) is made from PVC plastisol similar to wearlayer 24 (col. 9, lines 14-16) given that second layer 66 is also a transparent wearlayer (col. 9, lines 66-67) similar to wearlayer 24 (col. 9, lines 12-13) overlaying the plastic layer and the ink (second layer 66, col. 9, lines 64-65, Fig. 10). A layer is considered to be a coating.
- 9. Wang et al. fails to teach a cured coating overlaying the non-curable coating.

 However, Eby et al. teaches a surface covering (See Title) wherein a cured coating overlaving an ink is mechanically embossed (col. 3, lines 46-62 and 35-39).

- 11. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a cured coating overlaying the non-curable coating of Wang et al. to further protect underlying layers.
- Wang et al. fails to teach the first printing ink containing a photoinitiator or that the plastic layer is gelled.
- However, Schmidle et al. teaches a surface covering (See Title) comprising an ink containing a photoinitiator (col. 9, lines 3-8, col. 12, lines 1-4, col. 3, lines 54-62).
- 14. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a photoinitiator in the ink of Wang et al. to create surface areas with an embossed flat, dead, or dull mat finish or texture (Schmidle et al, col. 3, lines 54-59).
- Schmidle et al. further teaches wherein a plastic layer is gelled (col. 6, line 39, col. 7, line
 67).
- 16. It would have been obvious to one of ordinary skill in the art at the time of the invention to gel the plastic layer of Wang et al. for easier handling and processing (col. 7, line 67-col. 8, line 34).
- 17. Wang et al. fails to teach a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern or that portion of the plastic layer that does not underlie the second printing ink expands.
- However, Courtoy et al. teaches a surface covering (See Title) a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern (col. 3, lines

- 31-34) and that portion of the plastic layer that does not underlie the second printing ink expands (col. 4, lines 23-25).
- 19. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a second printing ink on the surface of the gelled plastic layer of Wang et al. as modified by Schmidle et al. to be a joint between two tiles so as to imitate ceramic tiling (col. 3, lines 37-42) and to have the portion of the gelled plastic layer of Wang et al. as modified by Schmidle et al. that does not underlie the second printing ink expand for a smooth over (Courtoy et al., col. 4, line 23).
- 20. Wang et al. as modified by Eby et al., Schmidle et al., and Courtoy et al. teaches a surface covering (Wang et al., See Title) mechanically embossing the second, curable coating in areas that are not disposed over the first and second printing inks, wherein the portion of the cured coating or cured layer, which is not overlaying or disposed over the first and second printing inks, is embossed with a first texture and the cured coating not overlaying or disposed over the first and second printing inks is mechanically embossed with a second texture, given that with the inclusion of the photoinitiator of Schmidle et al. in the inks of Wang et al. the portion of the cured coating that is not disposed over the inks will have a texture different from the portion of the cured coating disposed over the inks (Schmidle et al., See Figure 4A).
- 21. The limitations "obtained by a method of making a surface covering...k. curing the second, curable coating" and "mechanically embossed" are process limitations. It is noted that "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the

same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process", *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). Further, "although produced by a different process, the burden shifts to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product", *In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir.1983). See MPEP 2113.

- 22. Therefore, absent evidence of criticality regarding the presently claimed process and given that Wang et al. as modified by Eby et al. and Schmidle et al. meets the requirements of the claimed surface covering, the prior art clearly meets the requirements of present claims.
 Furthermore, the claimed limitations of embossing are taught by the prior art, as disclosed above.
- 23. Regarding claim 22, Wang et al. teaches a surface covering (See Title) which comprises a substrate (felt layer 60, col. 9, lines 27-28), a foamed and chemically embossed plastic layer overlaying the substrate (foamed layer 62, col. 9, line 29-30, col. 10, lines 31-39), a first printing ink in a first pattern design on said foamed plastic layer (printing design 64, col. 9, line 41, Fig. 10), and a non cured coating overlaying the foamed plastic layer and the ink (second layer 66, col. 9, lines 64-65, Fig. 10).
- Wang et al. fails to teach a cured coating or cured layer overlaying the non-cured coating.
- 25. However, Eby et al. teaches a surface covering (See Title) wherein the portion of the cured coating or layer overlaying an ink is chemically and/or mechanically embossed (col. 3, lines 46-62 and 35-39).

26. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a cured coating overlaying the non-cured coating of Wang et al. to further protect

underlying layers.

29.

27. Wang et al. fails to teach a first printing ink containing a photoinitiator.

 However, Schmidle et al. teaches a surface covering (See Title) comprising a printing ink containing a photoinitiator (col. 9, lines 3-8, col. 12, lines 1-4, col. 3, lines 54-62).

It would have been obvious to one of ordinary skill in the art at the time of the invention

containing a photointeacor (cor. 7, times 5-0, cor. 12, times 1-4, cor. 5, times 54-02).

to include a photoinitiator in the first printing ink of Wang et al. to create surface areas with an

embossed flat, dead, or dull mat finish or texture (Schmidle et al, col. 3, lines 54-59).

30. Wang et al. fails to teach a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern or that portion of the foamed plastic layer that does not underlie the second printing ink expand upon exposure to heat.

 However, Courtoy et al. teaches a surface covering (See Title) a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern (col. 3, lines

31-34) and that portion of the plastic layer that does not underlie the second printing ink expands

upon exposure to heat (col. 4, lines 17-18 and 23-25).

32. It would have been obvious to one of ordinary skill in the art at the time of the invention

to include a second printing ink on the surface of the foamed plastic layer of Wang et al. as

modified by Schmidle et al. to be a joint between two tiles so as to imitate ceramic tiling (col. 3,

lines 37-42) and to have the portion of the plastic layer of Wang et al. as modified by Schmidle

et al. that does not underlie the second printing ink expand for a smooth over (Courtoy et al., col.

4, line 23).

- 33. Limitations regarding "printing", "chemically embossed", "mechanically embossed", and "upon exposure to heat" are process limitations. It is noted that "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process", *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). Further, "although produced by a different process, the burden shifts to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product", *In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir. 1983). See MPEP 2113.
- 34. Therefore, absent evidence of criticality regarding the presently claimed process and given that Wang et al. as modified by Eby et al. and Schmidle et al. and meets the requirements of the claimed surface covering, the prior art clearly meets the requirements of present claims.
 Furthermore, the recited limitations are taught by the prior art, as disclosed above.
- 35. Regarding claim 25, Wang et al. fails to teach wherein the cured coating or cured layer further comprising comprises a polyurethane coating.
- 36. However, Eby et al. teaches a surface covering (See Title) wherein a cured layer (wear layer, col. 5, lines 21-24) further comprising comprises a polyurethane coating (top coat, col. 8, lines 9-13).

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37. It would have been obvious to one of ordinary skill in the art at the time of the invention

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to include a polyurethane coating in the cured coating or layer of Wang et al. to provide surface

gloss or shine (Eby et al., col. 10, lines 19-22).

38. Claims 21-22 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Wang et al. (U.S. Patent No. 4,863,782) in view of Eby et al. (U.S. Patent No. 6,753,066) and

Schmidle et al. (U.S. Patent No. 4,491,616) and Courtoy et al. (U.S. Patent No. 7,090,910).

39. Regarding claims 21, 24, and 26, Wang et al. teaches a surface covering (See Title)

comprising a substrate (felt layer 60, col. 9, lines 27-28), a plastic layer overlaying the substrate

(foamed layer 62, col. 9, line 29-30), a first printing ink in a first pattern on said plastic layer

(printing design 64, col. 9, line 41, Fig. 10), and a non curable coating made from plastisol (col.

9, lines 9-16 and 62-68) given that it is clear the second layer 66 (col. 9, line 65) is made from

PVC plastisol similar to wearlayer 24 (col. 9, lines 14-16) given that second layer 66 is also a

transparent wearlayer (col. 9, lines 66-67) similar to wearlayer 24 (col. 9, lines 12-13) overlaying

the plastic layer and the ink (second layer 66, col. 9, lines 64-65, Fig. 10). A layer is considered

to be a coating.

- 40. Wang et al. fails to teach a cured coating overlaying the non-curable coating.
- 41. However, Eby et al. teaches a surface covering (See Title) wherein a cured coating

overlaying an ink is mechanically embossed (col. 3, lines 46-62 and 35-39).

- 42. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a cured coating overlaying the non-curable coating of Wang et al. to further protect underlying layers.
- 43. Wang et al. fails to teach the first printing ink containing a photoinitiator or that the plastic layer is gelled.
- 44. However, Schmidle et al. teaches a surface covering (See Title) comprising an ink containing a photoinitiator (col. 9, lines 3-8, col. 12, lines 1-4, col. 3, lines 54-62).
- 45. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a photoinitiator in the ink of Wang et al. to create surface areas with an embossed flat, dead, or dull mat finish or texture (Schmidle et al, col. 3, lines 54-59).
- Schmidle et al. further teaches wherein a plastic layer is gelled (col. 6, line 39, col. 7, line 46. 67).
- 47. It would have been obvious to one of ordinary skill in the art at the time of the invention to gel the plastic layer of Wang et al. for easier handling and processing (col. 7, line 67-col. 8, line 34).
- 48. Wang et al. fails to teach a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern or that portion of the plastic layer that does not underlie the second printing ink expands.
- 49. However, Courtoy et al. teaches a surface covering (See Title) a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern (col. 3, lines 44-46) and that portion of the plastic layer that does not underlie the second printing ink expands (col. 4, lines 36-38).

- 50. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a second printing ink on the surface of the gelled plastic layer of Wang et al. as modified by Schmidle et al. to be a joint between two tiles so as to imitate ceramic tiling (col. 3, lines53-55) and to have the portion of the plastic layer of Wang et al. as modified by Schmidle et al. that does not underlie the second printing ink expand for a smooth over (Courtoy et al., col. 4, line 36).
- 51. Wang et al. as modified by Eby et al., Schmidle et al., and Courtoy et al. teaches a surface covering (Wang et al., See Title) mechanically embossing the second, curable coating in areas that are not disposed over the first and second printing inks, wherein the portion of the cured coating or cured layer, which is not overlaying or disposed over the first and second printing inks, is embossed with a first texture and the cured coating not overlaying or disposed over the first and second printing inks is mechanically embossed with a second texture, given that with the inclusion of the photoinitiator of Schmidle et al. in the inks of Wang et al. the portion of the cured coating that is not disposed over the inks will have a texture different from the portion of the cured coating disposed over the inks (Schmidle et al., See Figure 4A).
- 52. The limitations "obtained by a method of making a surface covering...k. curing the second, curable coating" and "mechanically embossed" are process limitations. It is noted that "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process", *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964,

966 (Fed. Cir. 1985). Further, "although produced by a different process, the burden shifts to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product", *In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir.1983). See MPEP 2113.

- 53. Therefore, absent evidence of criticality regarding the presently claimed process and given that Wang et al. as modified by Eby et al. and Schmidle et al. meets the requirements of the claimed surface covering, the prior art clearly meets the requirements of present claims.
 Furthermore, the claimed limitations of embossing are taught by the prior art, as disclosed above.
- 54. Regarding claim 22, Wang et al. teaches a surface covering (See Title) which comprises a substrate (felt layer 60, col. 9, lines 27-28), a foamed and chemically embossed plastic layer overlaying the substrate (foamed layer 62, col. 9, line 29-30, col. 10, lines 31-39), a first printing ink in a first pattern design on said foamed plastic layer (printing design 64, col. 9, line 41, Fig. 10), and a non cured coating overlaying the foamed plastic layer and the first printing ink (second layer 66, col. 9, lines 64-65, Fig. 10).
- 55. Wang et al. fails to teach a cured coating or cured layer overlaying the non-cured coating.
- 56. However, Eby et al. teaches a surface covering (See Title) wherein the portion of the cured coating or layer overlaying an ink is chemically and/or mechanically embossed (col. 3, lines 46-62 and 35-39).
- 57. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a cured coating overlaying the non-cured coating of Wang et al. to further protect underlying layers.
- 58. Wang et al. fails to teach a first printing ink containing a photoinitiator.

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59. However, Schmidle et al. teaches a surface covering (See Title) comprising a printing ink containing a photoinitiator (col. 9, lines 3-8, col. 12, lines 1-4, col. 3, lines 54-62).

- 60. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a photoinitiator in the first printing ink of Wang et al. to create surface areas with an embossed flat, dead, or dull mat finish or texture (Schmidle et al, col. 3, lines 54-59).
- 61. Wang et al. fails to teach a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern or that portion of the plastic layer that does not underlie the second printing ink expand upon exposure to heat.
- 62. However, Courtoy et al. teaches a surface covering (See Title) a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern (col. 3, lines 44-46) and that portion of the plastic layer that does not underlie the second printing ink expands (col. 4, lines 36-38).
- 63. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a second printing ink on the surface of the foamed plastic layer of Wang et al. as modified by Schmidle et al. to be a joint between two tiles so as to imitate ceramic tiling (col. 3, lines 53-55) and to have the portion of the foamed plastic layer of Wang et al. as modified by Schmidle et al. that does not underlie the second printing ink expand for a smooth over (Courtoy et al., col. 4, line 36).
- 64. Limitations regarding "heating", "chemically embossed", "mechanically embossed", and
 "upon exposure to heat" are process limitations. It is noted that "[E]ven though
 product-by-process claims are limited by and defined by the process, determination of
 patentability is based on the product itself. The patentability of a product does not depend on its

method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process", *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). Further, "although produced by a different process, the burden shifts to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product", *In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir. 1983). See MPEP 2113.

- 65. Therefore, absent evidence of criticality regarding the presently claimed process and given that Wang et al. as modified by Eby et al. and Schmidle et al. and meets the requirements of the claimed surface covering, the prior art clearly meets the requirements of present claims.
 Furthermore, the recited limitations are taught by the prior art, as disclosed above.
- Regarding claim 25, Wang et al. fails to teach wherein the cured coating or cured layer further comprising comprises a polyurethane coating.
- 67. However, Eby et al. teaches a surface covering (See Title) wherein a cured layer (wear layer, col. 5, lines 21-24) further comprising comprises a polyurethane coating (top coat, col. 8, lines 9-13).
- 68. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a polyurethane coating in the cured coating or layer of Wang et al. to provide surface gloss or shine (Eby et al., col. 10, lines 19-22).

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Claims 21-22 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Courtov et al. (U.S. Patent No. 7.081.291) in view of Wang et al. (U.S. Patent No. 4.863.782).

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70. Regarding claim 21, Courtoy et al. teaches a surface covering obtained by a method of making a surface covering (See Title) which comprises: a, applying a plastic layer over a substrate (col. 3, lines 25-26, Fig. 1); b. heating the plastic layer to a temperature which gels the plastic layer to form a gelled plastic layer intrinsically having a surface (col. 3, lines 26-28); c. applying to the surface of the gelled plastic layer a first printing ink containing a first photoinitiator in a first pattern design (col. 3, lines 28-30) and a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern (col. 3, lines 31-35); e. applying a second, curable coating (curable coating 5, col. 3, lines 51-55, col. 4, lines 58-60); f. gelling said second coating (col. 4, lines 60-61); g. mechanically embossing the second, curable coating (col. 4, lines 61-63), h. activating (expose to ultraviolet) said first photoinitiator and curing the surface areas of the second, curable coating disposed over the first printing ink (col. 4, lines 63-65, col. 9, lines 41-43); i. heating the second, curable coating, the plastic layer and the substrate, wherein the mechanical embossing in areas that are not disposed over the first printing ink is relaxed and that portion of the plastic layer that does not underlie the second printing ink expands (col. 4, lines 17-25), i. mechanically embossing the second, curable coating in areas that are not disclosed over the first and second printing inks (curable coating 5, Fig. 4), k, curing the second, curable coating, the surface covering comprising; a, the substrate, b, the gelled plastic layer overlaying the substrate, c. the first and second printing inks printed in a pattern or design on said gelled plastic layer, e. the cured coating wherein the cured coating overlaying the first and second printing inks is mechanically embossed with a first texture and the cured coating not

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overlaying the first and second printing inks is mechanically embossed with a second texture (col. 4. lines 32-36 and line 50-col. 5. line 12. col. 9. lines 35-40).

- Courtoy et al. fails to teach a first, non-curable coating.
- 72. However, Wang et al. teaches a surface covering (See Title) comprising a first, noncurable coating made from plastisol applied over a plastic layer and printing ink (second layer 66, foamed layer 62, printing design 64, col. 9, lines 9-16 and 62-68, Fig. 10) given that the second layer 66 of Wang et al. is a wearlayer similar to wearlayer 24, which is made from plastisol.
- 73. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a first, non-curable coating over the plastic layer and first and second printing inks of Courtoy et al., to protect the printing inks (Wang et al., col. 9, lines 9-16 and 62-68).
- 74. The limitations "obtained by a method of making a surface covering... k. curing the second, curable coating", "mechanically embossed", and "drying" are process limitations. It is noted that "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process", *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). Further, "although produced by a different process, the burden shifts to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product", *In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir. 1983). See MPEP 2113.

- 75. Therefore, absent evidence of criticality regarding the presently claimed process and given that Courtoy et al. as modified by Wang et al. meets the requirements of the claimed surface covering, the prior art clearly meets the requirements of present claims.
- 76. Regarding claim 22, Courtoy et al. teaches a surface covering (See Title) which comprises: a. a substrate (sheet substrate 2, col. 4, line 53), b. a foamed and chemically embossed plastic layer overlaying the substrate (foamable plastic layer 1, col. 4, lines 52-53, Fig. 2), c. a first printing ink containing a photoinitiator printed in a first pattern design on said foamed plastic layer (first printing ink 3, col. 4, lines 54-58) and a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern (second printing ink 4, col. 4, lines 55-58) whereby portions of the foamed plastic layer that do not underlie the second printing ink expand upon exposure to heat (col.4, lines 23-25), e. a cured coating or a cured layer wherein the portion of the cured coating or the cured layer disposed over the first and second inks is chemically and/or mechanically embossed (col. 4, lines 60-63, col. 5, line 4).
- Courtoy et al. fails to teach a first, non-curable coating.
- 78. However, Wang et al. teaches a surface covering (See Title) comprising a first, non-curable coating made from plastisol (col. 9, lines 9-16 and 62-68) applied over a plastic layer and printing ink (second layer 66, foamed layer 62, printing design 64, col. 9, lines 64-65, Fig. 10).
- 79. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a first, non-curable coating over the foamed plastic layer and first and second printing inks of Courtoy et al., to protect the printing inks (Wang et al., col. 9, lines 9-16 and 62-68).
- Regarding claim 24, Courtoy et al. teaches wherein the portion of the cured coating or cured layer, which is not disposed over the first and second printing inks, is mechanically

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embossed with a texture different from the mechanically embossed portion of the cured coating disposed over the first and second printing inks (col. 4, lines 32-36, col. 5, lines, 5-8).

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- Regarding claim 25, Courtoy et al. teaches wherein the cured coating or cured layer further comprises a polyurethane coating (col. 4, lines 37-38).
- 82. Regarding claim 26, Courtoy et al. teaches a surface covering obtained by a method of making a surface covering (See Title) which comprises; applying a plastic layer over a substrate (col. 3, lines 25-26, Fig. 1); heating the plastic layer to a temperature which gels the plastic layer to form a gelled plastic layer intrinsically having a surface (col. 3, lines 26-28); applying to the surface of the gelled plastic layer a first printing ink containing a first photoinitiator in a first pattern (col. 3, lines 28-30) and a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern (col. 3, lines 31-35); applying a curable coating (curable coating 5, col. 3, lines 51-55, col. 4, lines 58-60); drying the curable coating given that the curable coating is cooled (col. 10, lines 4-6); gelling at least the curable coating (col. 4, lines 60-61); mechanically embossing the curable coating (col. 4, liens 61-63); activating the first photoinitiator and curing the surface areas of the curable coating disposed over the first printing ink (col. 4, lines 63-65); heating the curable coating, the gelled plastic layer and the substrate to relax the mechanical embossing in areas not disposed over the first printing ink and such that portions of the plastic layer not underlying the second printing ink expand (col. 4, lines 17-25); and mechanically embossing the curable coating in the areas not disposed over the first and second printing inks such that the mechanical embossing of the areas not disposed over the first and second printing inks differs from the mechanical embossing of the areas disposed over the

first and second printing inks, and curing the curable coating col. 4, lines 32-36 and line 50-col.

5. line 12, col. 9, lines 35-40).

- 83. Courtoy et al. fails to teach a non-curable coating.
- 84. However, Wang et al. teaches a surface covering (See Title) comprising a first, noncurable coating made from plastisol applied over a plastic layer and printing ink (second layer
 66, foamed layer 62, printing design 64, col. 9, lines 9-16 and 62-68, Fig. 10) given that the
 second layer 66 of Wang et al. is a wearlayer similar to wearlayer 24, which is made from
 plastisol.
- 85. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a non-curable coating over the curable coating of Courtoy et al. to protect the printing ink (Wang et al., col. 9, lines 9-16 and 62-68).
- 86. The limitations "obtained by a method of making a surface covering... k. curing the second, curable coating", "mechanically embossed", and "drying" are process limitations. It is noted that "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process", *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). Further, "although produced by a different process, the burden shifts to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product", *In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir. 1983). See MPEP 2113.

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87. Therefore, absent evidence of criticality regarding the presently claimed process and given that Courtoy et al. as modified by Wang et al. meets the requirements of the claimed surface covering, the prior art clearly meets the requirements of present claims.

- Claims 21- 22 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Courtoy et al. (U.S. Patent No.7,090,910) in view of Wang et al. (U.S. Patent No. 4,863,782).
- 89. Regarding claim 21, Courtoy '910 teaches a surface covering obtained by a method of making a surface covering (See Title) which comprises: a. applying a plastic layer over a substrate (col. 3, lines 38-39, Fig. 1); b. heating the plastic layer to a temperature which gels the plastic layer to form a gelled plastic layer intrinsically having a surface (col. 3, lines 39-41); c. applying to the surface of the gelled plastic layer a first printing ink containing a first photoinitiator in a first pattern design (col. 3, lines 41-43) and a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern (col. 3, lines 44-47); e. applying a second, curable coating (curable coating 5, col. 3, lines 64-66, col. 5, lines 4-5); f. gelling said second coating (col. 5, lines 6-7); g. mechanically embossing the second, curable coating (col. 5, lines 7-8); h. activating (expose to ultraviolet) said first photoinitiator and curing the surface areas of the second, curable coating disposed over the first printing ink (col. 5, lines 9-11); i. heating the second, curable coating, the gelled plastic layer and the substrate, wherein the mechanical embossing in areas that are not disposed over the first printing ink is relaxed and that portion of the plastic layer that does not underlie the second printing ink expands (col. 4. lines 30-38), j. mechanically embossing the second, curable coating in areas that are not

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disclosed over the first and second printing inks (col. 5, lines 7-8, Fig. 4), k. curing the second, curable coating, the surface covering comprising: a. the substrate, b. the gelled plastic layer overlaying the substrate, c. the first and second printing inks printed in a pattern or design on said gelled plastic layer, e. the cured coating wherein the cured coating overlaying the first and second printing inks is mechanically embossed (col. 4, line 63-col. 5, line 22, col. 11, lines 7-12).

- 90. Courtoy '910 fails to teach a first, non-curable coating.
- 91. However, Wang et al. teaches a surface covering (See Title) comprising a first, noncurable coating made from plastisol applied over a plastic layer and printing ink (second layer 66, foamed layer 62, printing design 64, col. 9, lines 9-16 and 62-68, Fig. 10) given that the second layer 66 of Wang et al. is a wearlayer similar to wearlayer 24, which is made from plastisol.
- 92. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a first, non-curable coating over the plastic layer and printing ink of Courtoy '910 to protect the printing ink (Wang et al., col. 9, lines 9-16 and 62-68).
- 93. The limitations "heating", "obtained by a method of making a surface covering... k. curing the second, curable coating", "mechanically embossed", and "drying" are process limitations. It is noted that "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process", *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). Further, "although produced by a different process, the burden

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shifts to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product", *In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir.1983), See MPEP 2113.

- 94. Therefore, absent evidence of criticality regarding the presently claimed process and given that Courtoy '910 as modified by Wang et al. meets the requirements of the claimed surface covering, the prior art clearly meets the requirements of present claims.
- 95. Regarding claim 22, Courtoy '910' teaches a surface covering (See Title) which comprises: a. a substrate (sheet substrate 2, col. 4, line 66), b. a foamed and chemically embossed plastic layer overlaying the substrate (foamable plastic layer 1, col. 4, lines 65-66, Fig. 2), c. a first printing ink containing a photoinitiator printed in a first pattern design on said foamed plastic layer (first printing ink 3, col. 4, line 67-col. 5, line 1) and a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern (second printing ink 4, col. 5, lines 1-4) whereby portions of the plastic layer that do not underlie the second printing ink expand upon exposure to heat (col. 4, lines 36-38), e. a cured coating or a cured layer wherein the portion of the cured coating or the cured layer disposed over the first and second inks is mechanically embossed (col. 5, lines 6-8).
- Courtoy '910 fails to teach a first, non-curable coating.
- 97. However, Wang et al. teaches a surface covering (See Title) comprising a first, noncurable coating made from plastisol applied over a plastic layer and printing ink (second layer 66, foamed layer 62, printing design 64, col. 9, lines 9-16 and 62-68, Fig. 10) given that the second layer 66 of Wang et al. is a wearlayer similar to wearlayer 24, which is made from plastisol.

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98. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a first, non-curable coating over the foamed plastic layer and printing ink of Courtoy '910 to protect the printing ink (Wang et al., col. 9, lines 9-16 and 62-68).

- 99. Regarding claim 24, Courtoy '910' teaches wherein the portion of the cured coating or cured layer, which is not disposed over the first and second inks, is mechanically embossed with a texture different from the mechanically embossed portion of the cured coating disposed over the first and second inks (col. 4, lines 45-46, col. 5, lines, 18-21).
- 100. Regarding claim 25, Courtoy '910 teaches wherein the cured coating or cured layer further comprises a polyurethane coating (col. 4, lines 50-51).
- 101. Regarding claim 26, Courtoy '910 teaches a surface covering obtained by a method of making a surface covering (See Title) which comprises: applying a plastic layer over a substrate (col. 3, lines 38-39,Fig. 1); heating the plastic layer to a temperature which gels the plastic layer to form a gelled plastic layer intrinsically having a surface (col. 3, lines39-41); applying to the surface of the gelled plastic layer a first printing ink containing a first photoinitiator in a first pattern (col. 3, lines 41-43) and a second printing ink containing a second photoinitiator and an expansion inhibitor in a second pattern (col. 3, lines 44-47); applying a curable coating (curable coating 5, col. 3, lines 64-66, col. 5, lines 4-5); drying the curable coating given that the curable coating is cooled (col. 10, lines 4-6); gelling at least the curable coating (col. 5, lines 6-7); mechanically embossing the curable coating (col. 5, lines 7-8); activating the first printing ink (col. 5, lines 9-11); heating the curable coating, the plastic layer and the substrate to relax the mechanical embossing in areas not disposed over the first printing ink and such that portions of the plastic

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layer not underlying the second printing ink expand (col. 4, lines 30-38); and mechanically embossing the curable coating in the areas not disposed over the first and second printing inks such that the mechanical embossing of the areas not disposed over the first and second printing inks differs from the mechanical embossing of the areas disposed over the first and second printing inks and curing the curable coating embossed (col. 4, line 45-46 and line 63-col. 5, line 22, col. 11, lines 7-12).

- Courtoy '910 fails to teach a non-curable coating.
- 103. However, Wang et al. teaches a surface covering (See Title) comprising a first, noncurable coating made from plastisol applied over a plastic layer and printing ink (second layer 66, foamed layer 62, printing design 64, col. 9, lines 9-16 and 62-68, Fig. 10) given that the second layer 66 of Wang et al. is a wearlayer similar to wearlayer 24, which is made from plastisol.
- 104. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a non-curable coating over the curable coating of Courtoy '910 to protect the printing ink (Wang et al., col. 9, lines 9-16 and 62-68).
- 105. The limitations "obtained by a method of making a surface covering... k. curing the second, curable coating", "mechanically embossed", and "drying" are process limitations. It is noted that "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process", *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964,

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966 (Fed. Cir. 1985). Further, "although produced by a different process, the burden shifts to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product", *In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir.1983). See MPEP 2113.

106. Therefore, absent evidence of criticality regarding the presently claimed process and given that Courtoy '910 as modified by Wang et al. meets the requirements of the claimed surface covering, the prior art clearly meets the requirements of present claims.

Response to Arguments

- 107. Applicants' arguments filed 04 May 2011 have been fully considered but they are not persuasive.
- 108. Applicants amended claims 21 and 26 to include limitations of claim 24, claims to overcome the 112, second paragraph rejections regarding ink.
- 109. It is noted that Applicants refer to Courtoy et al. as "Courtnoy et al." Further, it is unclear which Courtoy et al. reference Applicants refer to given that there is Courtoy '291 and Courtoy '910.
- 110. Applicants argue that the plastisol of Wang is not inherently non curable and point to columns 7-8 of Courtoy et al. as evidence that plastisol is curable.
- 111. However, it is clear that the curable coating of Courtoy et al. is curable due to the presence of the crosslinkable photopolymer or monomer and not the plastisol, which is optional. There is no evidence that plastisol is necessarily curable given that Courtoy only optionally includes plastisol. Further, Wang does not appear to teach crosslinkable photopolymer or

monomer in the plastisol composition. It is assumed that Applicants are referring to Courtoy '291 given that col. 7-8 of Courtoy '291 discloses a curable coating.

- 112. Applicants argue that there is no motivation to combine Wang/Eby/Schmidle with Courtoy et al. to include the claimed non curable coating.
- 113. However, Wang does disclose proper motivation, namely to include a first, non-curable coating over the plastic layer and printing ink of Courtoy '291 and/or Courtoy '910 to protect the printing ink.

Conclusion

- 114. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHENG YUAN HUANG whose telephone number is (571) 270-7387. The examiner can normally be reached on Monday-Thursday from 8 AM to 4 PM.
- 115. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callie Shosho, can be reached at 571-272-1123. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 116. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C. H./

Cheng Yuan Huang

Examiner, Art Unit 1787

June 22, 2011

/Callie E. Shosho/ Supervisory Patent Examiner, Art Unit 1787